Camera Link® 5 mega-pixel Camera

FV-L500B1

5 mega-pixels | Camera Link | PoCL

5M Camera Link with highly rigid case and compact design

Use in tasks such as fault inspection, display inspection, solder defect inspection, and high-precision flaw detection for semiconductors, liquid crystal and plasma flat panel displays, circuit boards, etc.

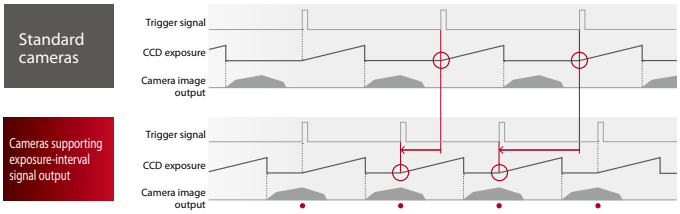
- 35 mm×35 mm compact design
- Uses PoCL (Power over Camera Link), which has a strong track record as a high-resolution digital camera interface
- High-speed frame rate of 5M: 16 fps
- Various trigger modes (pulse width, edge preset trigger) as standard features
- In addition to camera tripod screw holes, M4 screw holes are located on four sides (top, bottom, left, right)
- To increase mounting precision, mounting holes are arranged based on the CCD optical axis

■ [Exposure-interval signal output] outputs the camera exposure interval and enables efficient inspection

[Supported cameras] FV-L500B1, FV-L200B1, FV-L030B1, FV-G200B1, FV-G030B1

Exposure-interval signal output—which can start the next exposure during the transfer of the previous image—makes it possible to achieve high-speed work inspection*, thereby raising inspection efficiency. In addition, since the camera exposure interval is output externally, it can be used for various purposes.

*Limited to cases where the next exposure does not end before the completion of image transfer.

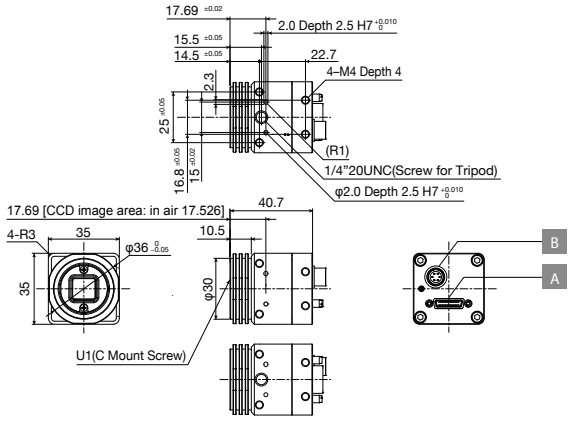


• Exposure starts during image transfer.
The CCD exposure start marked with the ○ is speeded up, thereby making high-speed work detection possible.

FV-L500B1 Product specifications

Imager		2/3" interline 5.0 Mega pixels monochrome progressive CCD
Active picture elements		2448 (H) × 2058 (V)
Cell size		3.45 (H) × 3.45 (V) µm
Vertical frequency (Frame rate)		16 Hz
Horizontal frequency		33.264 kHz
Pixel frequency		64 MHz
Minimum scene illumination		0.24 lux at F1.2
Sync. System		Internal
Video output		Digital 8 , 10 or 12 bit Raw Data (Base configuration)
Shutter speed		OFF, 1/8 to 1/209,000 sec. (Variable at every H and clock)
Gain		0 to 18.309 dB
Gamma		1.0
Power supply	Input voltage	12 Vdc ± 10%
	Consumption	Less than 4.0 W
Dimensions		35 (W) × 35 (H) × 40.7 (D) mm (excluding the connector)
Lens mount		C mount
Weight		Approximately 80 g
Operational environment	Operational temperature	-5 to 40 deg. C
	Storage temperature	-30 to 65 deg. C

Dimensions and rear connector specifications



Unit: mm

A Camera Link connector 3M-made SDR equivalent

B Input/output signal connector
Hirose-made HR10A-7R-6PB equivalent Trigger signal input can be done in accordance with the camera setting.Optional connector RICOH FP-CN6PB is supported.
Note: For the frame grabber board and cable, the PoCL type should be used.

Pin No.	Signal name	IN/ OUT	Voltage		
				Low voltage	High voltage
1	GND	IN		0V	
2	I/O-1	IN/OUT	IN	0 to +0.99V	+2.3 to +3.3V
			OUT	0V	+3.3V
3	I/O-2	IN/OUT	IN	0 to +0.99V	+2.3 to +3.3V
			OUT	0V	+3.3V
4	I/O-3	IN/OUT	IN	0 to +0.99V	+2.3 to +3.3V
			OUT	0V	+3.3V
5	TRIGGER	OUT	OUT	0V	+3.3V
6	N.C.				

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